

Application entitled: ALLOCATION OF RESOURCES IN PACKET-SWITCHED
DATA TRANSFER

MARKED UP CLAIM(S)

3. A method according to Claim 1 ~~or 2~~, characterized in that the processing of the information to be transmitted takes place according to a protocol stack, which includes at least an RLC/MAC layer.
4. A method according to ~~any one of the claims 1, 2 or 3~~ claim 1, characterized in that said reply message (307) is a request message for the allocation of packet resources.
5. A method according to ~~any one of the claims 1 to 4~~ claim 1, characterized in that advantageously the last transmitted packet (302) is used as the enquiry message (306).
6. A method according to ~~any one of the claims 1 to 4~~ claim 1, characterized in that the Packet Power Control/Timing Advance message is used as the enquiry message (306).
7. A method according to ~~any one of the claims 1 to 4~~ claim 1, characterized in that the Packet Uplink Assignment message is used as the enquiry message (306).
8. A method according to ~~any one of the claims 5, 6 or 7~~ claim 5, characterized in that the transmission of the enquiry message (306) is repeated, whereby the following steps are also performed in the method:
 - the wireless data transfer device transmits a reply message (307), to which the wireless data transfer device (MS) sets information about the need to transmit packets,
 - said reply message (307) is received in the mobile communication network and it is examined whether said information about the need to

transmit packets has been set in the reply message, and if the information about the need to transmit packets has been set, the formation of a temporary block flow from the wireless data transfer device to the mobile communication network is started, otherwise said enquiry message (306) is transmitted again.

9. A method according to ~~any one of the claims 1 to 8~~claim 1, characterized in that the mobile communication network is a GPRS packet-switched network.
10. A method according to ~~any one of the claims 1 to 5~~claim 1, in which the wireless data transfer device (MS) has at least an active mode and an idle mode, characterized in that if the wireless data transfer device (MS) does not have packets to be transferred when the transfer of packets in the first direction is stopped, the wireless data transfer device (MS) is set to the idle mode.
11. A method according to ~~any one of the claims 1 to 10~~claim 1, characterized in that when the transfer of packets has stopped, the wireless data transfer device (MS) sends an acknowledgement message (304) to the mobile communication network (NW), and that the wireless data transfer device (MS) sets in said acknowledgement message (304) at least information about the need to send packets.
15. A data transfer system according to ~~Claim 13 or 14~~, characterized in that a protocol stack for processing the information to be transmitted has been formed in the wireless data transfer device (MS) and the mobile communication network (NW), and that the protocol stack comprises at least an RLC/MAC layer.
16. A data transfer system according to ~~any one of the claims 13, 14 or 15~~claim 13, characterized in that said reply message (307) is a request message for the allocation of packet resources.
17. A method according to ~~any one of the claims 13 to 16~~claim 13, characterized in that the mobile communication network is a GPRS packet-switched network.